IN THE CLAIMS

Please amend the claims as follows:

Claim 1 (Currently Amended): A modulation device comprising:

a modulation unit that modulates configured to modulate data in a hierarchical manner using multiple types of modulation techniques and to produce hierarchically modulated data that includes signal states for the multiple types of modulation techniques; and

a transmission unit that transmits configured to transmit the hierarchically modulated data.

Claim 2 (Currently Amended): The modulation device according to claim 1, further comprising:

a sampling pattern generating unit that generates configured to generate a sampling pattern for each of the multiple types of modulation techniques, the sampling pattern is a constellation pattern in a phase plane defining a sampling space for quantizing said data in accordance with each of said modulation techniques, wherein the modulation unit modulates said data in the hierarchical manner using a digital signal sampled based on the sampling pattern.

Claim 3 (Original): The modulation device according to claim 2, wherein the sampling pattern defines the sampling space of a carrier used in one of multi-phase phase shift keying and multi-value quadrature amplitude modulation.

Claim 4 (Currently Amended): The modulation device according to claim 2, wherein the transmission unit transmits is configured to transmit the sampling pattern, together with the hierarchically modulated data.

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Claims 5-10 (Canceled).

Claim 11 (Currently Amended): A modulation method comprising the steps of:

modulating data in a hierarchical manner using multiple types of modulation

techniques to produce hierarchical modulation data;

producing hierarchically modulated data that includes signal states for the multiple

types of modulation techniques; and

transmitting the hierarchical modulation data to a demodulator of a counterpart

communication device.

Claim 12 (Currently Amended): The modulation method according to claim 11,

further comprising the step of:

generating a sampling pattern for each of the modulation techniques, the sampling

pattern is a constellation pattern in a phase plane defining a sampling space for quantizing

said data in accordance with each of said modulation techniques, wherein said data [[are]] is

modulated in a hierarchical manner using a digital signal sampled based on the sampling

pattern.

Claim 13 (Original): The modulation method according to claim 12, wherein the

sampling pattern defines the sampling space of a carrier used in one of multi-phase phase

shift keying and multi-value quadrature amplitude modulation.

Claim 14 (Currently Amended): The modulation method according to claim 12,

further comprising the step of:

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transmitting the sampling pattern together with the hierarchically modulated data.

Claim 15-20 (Canceled).